# IT Sector IoT Security Working Group

Briefing for Software and Supply Chain Assurance Forum August 29, 2017

#### Overview

- Working group consists of personnel from IT Sector Coordinating Council and DHS Office of Cybersecurity and Communications.
- Focus is IoT implementations most prevalent in the Federal environment and to identify baseline security considerations applicable to acquisitions of those IoT systems and devices.
- Primary audience is the Federal Acquisition Team, including but not limited to the government's Program Office, IT Security, Legal, and Contracting Office personnel.

#### Guidance Outline

- Overview of IoT Cybersecurity Considerations
  - ➤ Identification of IoT Solution Characteristics: characteristics of IoT that should be identified in the early stages of the acquisition and procurement lifecycles.
  - ➤ Definition of Base Requirements: how basic cybersecurity requirements can be grouped by IoT characteristic or function (tasks to be performed, performance required, essential physical characteristics, etc.).
  - Security Implementation Guidance: introduce the Cybersecurity Framework and provide an overview of cybersecurity activities related to deploying IoT and their relationship to the CSF Functions and Categories.

## Guidance Outline (cont'd)

Procurement Lifecycle Mapping:

➤ Requirements Development: best practices for identifying and documenting IoT characteristics during the requirements definition process, including:
☐Mission Needs; and
☐Operational Requirements.
➤ Acquisition Planning: best practices for addressing IoT security during the acquisition planning process, including:
☐Industry/Vendor Engagement;
☐Contract type;
☐Independent cost estimates;
☐ Market Research; and
☐Price-performance tradeoff considerations.

### Guidance Outline (cont'd)

- Procurement Lifecycle Mapping (cont'd):
  - Solicitation Development and Contract Award: best practices for addressing IoT risks during the solicitation development and contract award processes, including:
    - □ Source Selection and Evaluation Criteria;
       □ Price/Cost and Technical Evaluations;
       □ Deliverables;
       □ Developing meaningful Key Performance Indicators (KPIs) for IoT;
       □ Risk Assessment of IoT deliverables, contractors and subcontractors.
  - Contract Administration and Closeout: best practices for addressing IoT risks during the contract administration and closeout processes, including:
    - ☐ Tracking vendor performance against KPIs; and
    - ☐ Ensuring proper disposal of IoT device.

## Guidance Outline (cont'd)

- Additional Considerations for Implementation
  - riangleright and additional cybersecurity considerations not specified in the previous sections.
- Integrating New and Legacy Capabilities
  - >cybersecurity considerations specific to connecting new IoT systems and devices to legacy systems.
- References and Additional Resources
  - references and links to additional standards and resources to the topics above.

#### Timeline

- Sep 6<sup>th</sup> WG approval of outline
- Q1FY2018 first draft guidance document
- Q2-Q3FY2018 final guidance document

- Comments? Edits? Suggestions? Want to participate in WG?
  - ➤ Send to: <u>emile.Monette@hq.dhs.gov</u>